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IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of operating an Internet Protocol (IP) network comprising a plurality of routers, each router further comprising a plurality of interfaces, the method comprising the steps of:

connecting, as needed, an unconnected [[a]] spare interface on a first router in the IP network to a re-configurable transport network which provides connectivity to an unconnected [[a]] spare interface on a second router in the IP network upon detection of a pre-designated condition in the IP network; and

switching traffic designated for a primary interface at the first router to the spare interface at the first router in the IP network, thereby causing the traffic to flow across a spare capacity on the re-configurable transport network between the spare interface on the first router and the spare interface on the second router in the IP network.

- 2. (Original) The method of claim 1 wherein the pre-designated condition is a failure in the primary interface at the first router in the IP network.
- 3. (Previously Presented) The method of claim 2 wherein the primary interface provided connectivity to the re-configurable transport network before said failure and wherein the spare interface provides 1:N interface protection.
- 4. (Original) The method of claim 2 wherein the primary interface provided connectivity over a direct point-to-point link and wherein the spare interface provides dynamic establishment of a new IP link in response to the failure.
- 5. (Original) The method of claim 1 wherein the pre-designated condition is

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a surge in traffic across the primary interface at the first router in the IP network.

- 6. (Original) The method of claim 1 wherein the re-configurable transport network comprises a plurality of optical cross-connects.
- 7. (Currently Amended) A device-readable medium storing program instructions for performing a method of operating a router in an Internet Protocol (IP) network, the router further comprising a routing table and a plurality of interfaces including [[a]] an unconnected spare interface providing connectivity through a re-configurable transport network to [[a]] an unconnected spare interface on a second router in the IP network, the method comprising the steps of:

receiving a signal indicating a pre-designated condition in the IP network:

connecting, as needed, said unconnected spare interface on said router in the IP network to said re-configurable transport network which provides connectivity to said unconnected spare interface on said second router in the IP network upon receiving said signal indicating a pre-designated condition in the IP network; and

reconfiguring the routing table in the router so as to switch traffic designated for a primary interface at the router to the spare interface at the router, thereby causing the traffic to flow across a spare capacity on the reconfigurable transport network between the spare interface on the router and the spare interface on the second router in the IP network.

- 8. (Original) The device-readable medium of claim 7 wherein the predesignated condition is a failure in the primary interface at the first router in the IP network.
- 9. (Previously Presented) The device-readable medium of claim 8 wherein the primary interface provided connectivity to the re-configurable transport

network before said failure and wherein the spare interface provides 1:N interface protection.

- 10. (Original) The device-readable medium of claim 8 wherein the primary interface provided connectivity over a direct point-to-point link and wherein the spare interface provides dynamic establishment of a new IP link in response to the failure.
- 11. (Original) The device-readable medium of claim 7 wherein the predesignated condition is a surge in traffic across the primary interface at the first router in the IP network.
- 12. (Currently Amended) An Internet Protocol (IP) router comprising:
 a plurality of interfaces including at least one primary interface and [[a]] an
 unconnected spare interface providing connectivity, as needed, through a reconfigurable transport network to [[a]] an unconnected spare interface on a
 second router in an IP network, wherein said unconnected spare interface is
 connected to said unconnected spare interface on said second router in the IP
 network upon receiving a signal indicating a pre-designated condition in the IP
 network; and

a routing table that is reconfigured so as to switch traffic designated for a primary interface at the router to the spare interface at the router, thereby causing the traffic to flow across a spare capacity on the re-configurable transport network between the spare interface on the router and the spare interface on the second router in the IP network.

- 13. (Original) The router of claim 12 wherein the pre-designated condition is a failure in the primary interface at the first router in the IP network.
- 14. (Previously Presented) The router of claim 13 wherein the primary interface provided connectivity to the re-configurable transport network

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- 15. (Original) The router of claim 13 wherein the primary interface provided connectivity over a direct point-to-point link and wherein the spare interface provides dynamic establishment of a new IP link in response to the failure.
- 16. (Previously Presented) The router of claim 12 wherein the pre-designated condition is a surge in traffic across the primary interface at the first router in the IP network.